G. R. S. 59]

GENERAL AND REVENUE SECRETARIAT.

19 11-12

(Gen: Misc)

P 67

File No. 302-1

Serial Nos. 1-29

Papers Filed.

Month June '14

SUBJECT.

Invention for Improvements in apparatus for precipitation treatment of liquids" by Mr. Frank Owen Electrician of 22nd Jay Street, Jamaica, etc.

PREVIOUS REFERENCES.	LATER REFERENCES.
Ranjaoji. 17-8-14.	

G.R.S. 11] 191/-12

GENERAL AND REVENUE SECRETARIAT.

(Gen : Mis)

NOTES.

Gen File No. 302 11/12

FILE HEADING.

Invention for "Improvements in Apparatus for precipitation treatment of liquids" by Mr Sank Ondra, Electrician of 22 Fox St, Ferreira, Johannesburg, Transvaal, Union of South Africa.

From

Messrs Remfry & Son, Calcutta.

No. Dated 15. 5. 12 Received 18. 5 - 12

Diary No. 4992	Enclos. 2 Spare Copies.	Serial No. 1

BRIEF ABSTRACT OF LETTER.

Forwards an application for leave to file a specification of the above invention and also a power-of-attorney and remits Rs 11/.

NOTES AND ORDERS.

The application and stamp fees have been received. The usual drafts are subd

29/1/99 29.5.12 PKR

v Issue

hm 30/5/12

NOTES—First Sheet

GPB—30,000—12-8-11

G. R. S. 12]

General and Revenue Secretariat. | G. R. File No. 302 of 1911-12

5365

Serial No.

2. To the Supt of Stamps, No C. 6418 d/ 7.6.12 — Forwards the Power of attorney recd with the above request that the same may be impressed with the Impose Stamp of the value of Re 1 (herewith forwarded) and returned to this Office

3. To the State Geologist, No C. 6419 d/ 7.6.12 — Forwards for report, the appn received with Fl 1.

4. To the D.C. Fy. Dept, Bangalore, No C. 6420 d/ 7.6.12 — Forwards Rs 10/- received with Fl 1 & requests acknowledgment

Sry

5 From the above No 212 d/ 10.6.12 Acknowledges the receipt of the amount forwarded with the above

6 From the Supdt of Stamps No 178 d/ 11.6.12. Returns duly stamped the power of attorney forwarded with Fl 2 and requests acknowledgment. 3 drafts subd for approval & other orders

24/99 / 18/612 VS. 41

4 Issued

7. To the Supt of Stamps, No C. 6775 d/ 24.6.12 — Acknowledges the receipt of the duly Stamped Power of attorney forwarded with the above (Fl 6)

8 To the D.C. Fy. Dept, Bangalore Dt, No C. 6776 d/ 24.6.12 — Returns the receipt (Fl 5) as neither the full description of the invention nor the No & date of this office Comm^n with which

NOTE—Contn. sheet.

GPB—20,000—20-1-12

G. R. S. 12]

General and Revenue Secretariat.

G.M. File No. 302 of 1911-12

Serial No.	
D564 b D561	the amount was remitted, has been noted thereon & requests him to have the necessary entries made & retransmit the Receipt to this office early.
9	From the D.C. Hy Deptt, Bangalore. No 2106 d 26.6.12 Returns, supplying the omissions, the receipt forwarded with the above. 5 The State Geologist's report called for in sl 3 may be awaited. Subd VS.41 29.6.12 29.6.12
10	From the State Geologist. No 217 d 23.7.12. In reply to sl 3, reports that the specification is neither sufficiently specific nor sufficiently novel to warrant the grant of the leave applied for 6 Draft subd 29.7.12 VS.41 Secy) 30.7.12 9 Please see remarks on the margin. + put up a revised clean draft 8/8 8 Fair draft subd 9.8.12 VS.41 Secy) 9.8.12
535	1st Councilor 9 Draft appd: by 1st Councillor 15.8.12 10 Issued 16.8.12

NOTE—Contn. sheet.

GPB—20,000—20-1-12

R. S. 12]

General and Revenue Secretariat. | G.R. File No. 302 of 1911-12

Serial No.

11. To messrs Remfry & Son, re G.1026 d/ 21.8.12 - Returns the Enclosures ~~Draft letter~~ to SR 1 stating that the Specifn is neither sufficiently specific nor sufficiently novel to warrant the grant of the leave applied for & adds that Govt would reconsider the applcn in case further information regarding novelty &c is supplied.

501
477

thus may be helpful in this?

Sup 12 From the same d/ 4-9-13

With refce to the above, request to be informed which portions of the Specification fail to be specific so that the applicant may elaborate the same, and state that as regards the question of novelty of the invention, the applicant has secured Patent in the countries named therein ~~& forward~~ cops of U.S. Patent order.

~~Draft dated the approved & other orders.~~

SR 11 reports 11. The application with the specification and the Power-of-Attorney returned with SR 11, above, have not been re-transmitted. Draft calling for them is accordingly subd for approval & other orders

SR thus 12/9/13

Issue

hm 28.8.13

13. To messrs Remfry & Son. G.2255 d/ 8.9.13. With reference to the above requesting them forward the application &c returned with SR 11, for taking further action in the matter.

Sup

NOTE—Contn. sheet.

FRS 2]

General and Revenue Secretariat.

GR File No 302 of 191/

Serial No.	
14	From Messrs Remfry & Son, Calcutta. Letter dy nil. Forwards the ~~draft~~ Specification and the Power-of-Attorney as called for in the above Draft to the State Geologist is subd. 17.11.13 BR. Done. 18.11.13.
15	To the State Geologist No. G 3871 dy 26.11.1913. Writs reference to sl: 10 forwarding copy of sl: 12 and enquiring whether under the circumstances now represented leave for filing a specification may be granted.
16	From the same. No. 1168 dy 28 11.13. With refce to the above, requests to be furnished with the Specification and the United States Patent in respect of the invention. Draft forwarding is subd. 6/12/13 BR. Done. 8/12/13
16A	To the State Geologist No. G 4223 dy 12/12/13. Forwards the specification &c as requested in sl: 16.

NOTE—Contn. sheet.

GIP—65,000—17-C-12.

G. R. S. 12]

General and Revenue Secretariat. | File No. 302 of 1911-12

4737
6 7 2
6896

Serial No.	
17	From Messrs Remfry & Son. dd 30. 12. 13. With refce to sl 14, forward certified copy of the Complete Specification of Transvaal Patent No 179/11 dd 27. 3. 11.
18	From the State Geologist. No 1613 dd 13. 1. 14. With refce to sl 15, states that in view of the fact that a patent has been granted for the invention in the U. S. A, he withdraws his objection and that the leave applied for for filing a specification may be granted — The usual drafts are subd.
	E/A 10/2/14 — James 11. 2. 14.
19	To Mr Frank Ondra. No G 6871 dd 27. 2. 14. Authorises him to file a specifn of the invention
20	To Messrs Remfry & Son. No G 6872 dd 27. 2. 14. Forwards the above & requests that the same may be communicated to the parts concerned.
21	From Messrs Remfry & Son. dd 6. 3. 14. Forward Rs 30/- & 4 copies of the specifn & request the filing of the Specifn. The fee has been received in time. The usual drafts are subd. The certificate at foot of the order (both draft & fair) requires signature
	E/A 22/4/14 — James Reilly

NOTE—Contn. sheet.

GPB—60,000—7-11-13

G. R. S. 12]

(7)

General and Revenue Secretariat.

Gen File No. 302 of 191/

84.7
84.37
73
87.04

Serial No.	
22	To D.C. Hrs, Bangalore. No. G9400 dt 20.5.14 Forwards Rs 30/- rec.d with the above & requests receipt.
23	To the Compiler, Mysore Gazette. No. G9401 dt 20.5.14 Notifies the filing of the Specifn.
24	To Messrs Remfry & Son. No. G9402 dt 20.5.14. Forwards copy of the above & also returns Sl 19 with certificate at foot duly filled in & signed.
25	To the State Geologist, Supdt, Govt Museum & Chief Engr. No. G9403-5 dt 20.5.14. Forwards each of a copy of the Specifn for record.
26	From D.C. Hrs, Bangalore. No. 1045/38 dt 21.5.14 Acknowledges the receipt of the amount forwarded with Sl 22.
27	From the State Geologist. No. 2888 dt 21.5.14. Acknowledges the receipt of the Specifn forwarded with Sl 25.
28	From the Supdt, Govt Museum. No 200 dt 22-5-14 Do — Do Reply from the Chief Engineer may be awaited. Submd 1.6.14 Remind however.
29	From the Chief Engineer. No. 5388 dt 1.6.14. Acknowledges the receipt of the Specifn forwarded with Rs. The correspondence may now be filed. Submd 6.6.14

NOTE—Contn. sheet.

G P B—60,000—7-11-13

GENERAL.

V 1815

(1)

To

THE ~~PATENT~~ SECRETARY, TO THE GOVERNMENT OF MYSORE,
~~PATENT OFFICE~~, GENL. & REV. DEPTS,
~~CALCUTTA.~~ BANGALORE,
MYSORE.

FROM

DIARY No. 4992

REMFRY & SON,
SOLICITORS AND PATENT AGENTS,
CALCUTTA.

1911-1912
SECTION Jen : Mis
FILE No. 302 of 1911-12
L No. /

Dated CALCUTTA, the 15th May 1912.

Sir,

re F. ONDRA. (MYSORE)

We have the honour to forward herewith an Application of FRANK ONDRA, Electrician, of 22 Fox Street, Ferreira, Johannesburg, Province of the Transvaal, Union of South Africa, an Inventor, for leave to file a Specification under Part I of the Mysore Inventions & Designs Regulation, 1894, in respect of an Invention for "IMPROVEMENTS IN APPARATUS FOR PRECIPITATION "TREATMENT OF LIQUID", and solicit the favour of your submitting the same to H. H. the Dewan.

The Power of Attorney under which we are acting is also enclosed and we solicit the favour of your having same stamped Re. 1/-

There is, we believe, no corresponding British or Indian Application or Patent.

A Post Office Order for Rs. 11/- is sent today.

We have the honour to be,
Sir,
Your very obedient servants,

REMFRY & SON

I.M.B.

1,000.—17-3-11.

Enc: (2)

COUPON. *The remitter may write here any communication to the payee.*

Rs. 11 As. nil. Mysore Patent
Application of F. Ondra.

REMFRY & SON
Remitter.
15/5/12

18.5.12

Ref. page 11
A 1911-12

(3)

Spec: 1881

APPLICATION.

TO THE DEWAN OF MYSORE.

The Application of FRANK ONDRA, Electrician, of 22 Fox Street, Ferreira, Johannesburg, Province of the Transvaal, Union of South Africa, for leave to file a Specification under Part I of the Mysore Inventions and Designs Regulation, 1894.

1. The Applicant is in possession of an Invention for "Improvements in apparatus for precipitation treatment of liquid";he is the Inventor thereof; and to the best of his information and belief, the Invention is new within the meaning of Part 1 of the Inventions and Designs Act, 1894, and no circumstance exists which, if the Applicant is authorised to file a Specification and files it in accordance with that Part, will disentitle him to an Exclusive Privilege thereunder in respect of the Invention.

2. The following is a description of the Invention:-

REMFRY & SONS. SOLICITORS & PATENT AGENTS

The present invention relates to apparatus for use in metallurgical operations for continuously treating liquid with a precipitant, separating the precipitate and passing off the treated liquid. It is applicable to and will be described in connection with treatment of cyanide solution for the precipitation of zinc, copper and other metals therefrom and for the regeneration of the cyanide.

Apparatus in accordance with the invention is illustrated in vertical section in Fig. I of the accompanying drawings; Fig. II being a section on a-a Fig. I. Fig. III shows a modification.

1 is a source of cyanide solution, for instance working solution which has been passed through zinc precipitation boxes. Such solution is passed by pipe 2 into the top of a tower or closed vessel 3.

The lower end of said tower or vessel opens into a relatively large receiver 4. A second tower or vessel 5 rises from the receiver and is provided with an outflow pipe 6 slightly below the inlet pipe 2, so that the two towers and the receiver form an inverted syphon through which the liquid flows under a low head downwardly through tower 3 and up again through tower 5.

7 is a source of supply of carbon dioxide under pressure, whence that gas is conveyed by pipe 8 to a series of perforated pipes 9 situated in the lower part of tower 3 and extending well over the cross sectional area thereof. The gas emerges from said perforated pipes and passes into the liquid to re-act therewith. According to circumstances, precipitants other than carbon dioxide may be used and if of a liquid nature

they may be passed into the upper part of tower 3 instead of at the bottom, as shown.

A pipe 10 is provided at the top of tower 3 to carry off the hydrogen cyanide (or other gas as the case may be). In the case of hydrogen cyanide it is passed into vessel 11 containing a reagent, e.g. sodium hydrate, with which it combines to form a soluble cyanide which may be returned to the working solution; and in the case of other valuable gas it is treated in any appropriate manner capable of utilizing it.

Cocks 12 are fitted at various heights in the walls of the towers for testing the condition of the liquid in them.

The capacity of tower 3 is such that it is traversed by the liquid substantially in the time taken to complete the precipitation aimed at. Thus, for treating strong (.25%) working cyanide solutions with carbon dioxide for the precipitation therefrom of zinc, copper and other metals or impurities, it has been found desirable for the liquid to occupy about an hour in passing from the top to the bottom of tower 3; whilst weaker solutions require correspondingly less time.

The receiver 4 and tower 5 are of such capacity that the liquid passes through them slowly enough to cause the deposition of the precipitate carried with it from tower 3, so that clear liquid only passes away from pipe 6. The precipitate ultimately settles in the bottom of the receiver 4 and is removed thence continuously, or from time to time, as desired.

The receiver 4 and tower 5 constitute a convenient means for causing the liquid to flow slowly and regularly

down through tower 3, and at the same time providing for efficient separation of the precipitate from the effluent liquid. On the other hand, any other suitable means for effecting these objects may be employed; for instance as shown in Fig. III, the bottom of tower 3 may be closed and provided with a valve 13 by which the flow of liquid down through the tower is controlled. In such case the separation may take place in a filter-press 14, in a settling tank, or otherwise.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is, in apparatus for use in metallurgical operations:-

1. The combination of two vessels connected at the bottom, means for passing liquid into the upper part of one vessel and out of the upper part of the second vessel, a source of supply of precipitant fluid, and means for passing the same into the first named vessel.

2. The combination of two vessels, a common receiver into which said vessels open at the bottom, means for passing liquid into the upper part of one vessel and out of the upper part of the second vessel, a source of supply of precipitant fluid, and means for passing the same into the first named vessel.

3. The combination with a vessel, of means for passing liquid into the upper part of the same, a source of supply of precipitant gas under pressure, means for distributing said gas into the lower part of the vessel, and means for controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom.

4. The combination with a vessel, of means for passing liquid into the upper part of the same, a source of supply of precipitant fluid, means for passing the same into the vessel, means controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom, and means for withdrawing gas from the top of the vessel.

5. The combination with a vessel, of a source of supply of cyanide solution, means for passing said solution into the upper part of the vessel, a source of supply of precipitant fluid, means for passing the same into the vessel, and means for controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom.

6. The combination with a vessel, of a source of supply of cyanide solution, means for passing said solution into the upper part of the vessel, a source of supply of precipitant fluid, means for passing the same into the vessel, means for controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom, a liquid container, and a pipe passing from the top of the vessel into the liquid container.

7. The combination of two vessels, a common receiver into which said vessels open at the bottom, means for passing liquid continuously into the upper part of one vessel and out from the upper part of the second vessel, a source of supply of precipitant fluid, means for passing the same continuously into the first named vessel, said first named vessel being of such capacity

that the required precipitation is effected whilst the liquid is passing through it, and the second vessel and the receiver being of such capacity as to permit the settlement of the precipitate so produced.

8. Apparatus for the precipitation treatment of liquid substantially as described with reference to the accompanying drawings.

(9)

5. The Applicant, therefore, applies for leave to file a Specification of the Invention pursuant to Part I of the Inventions and Designs Act, 1894.

...James K. Gunter...

I, the Applicant above named, do declare that the facts stated in this Application are true to my knowledge, except as to matters stated on information and belief and as to those matters I believe them to be true.

Dated this 3. day of April, 1912.

...James K. Gunter...

SOLICITORS & PATENT AGENTS
REMFRY & SON.
CALCUTTA.

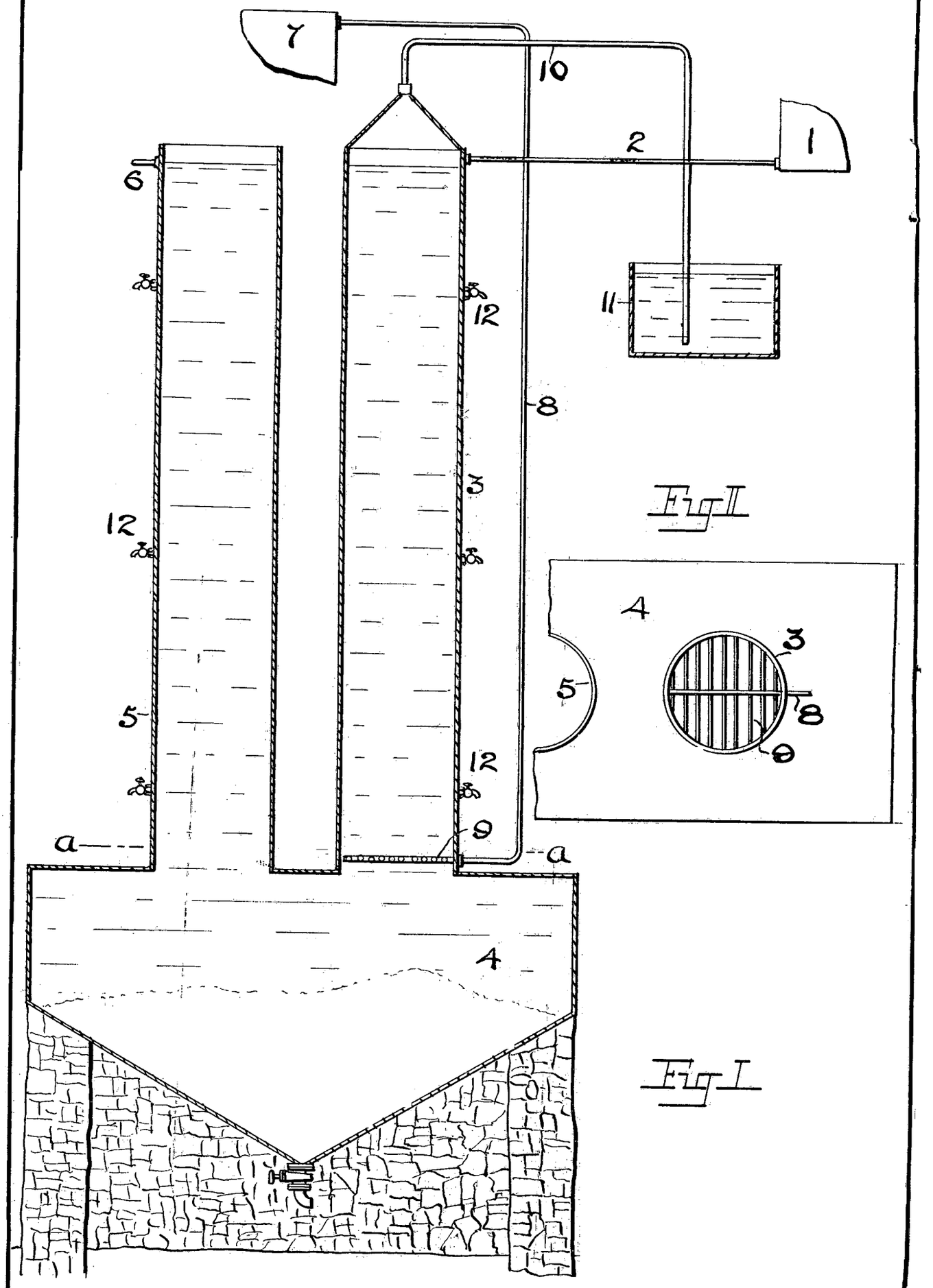


Fig I

Fig II

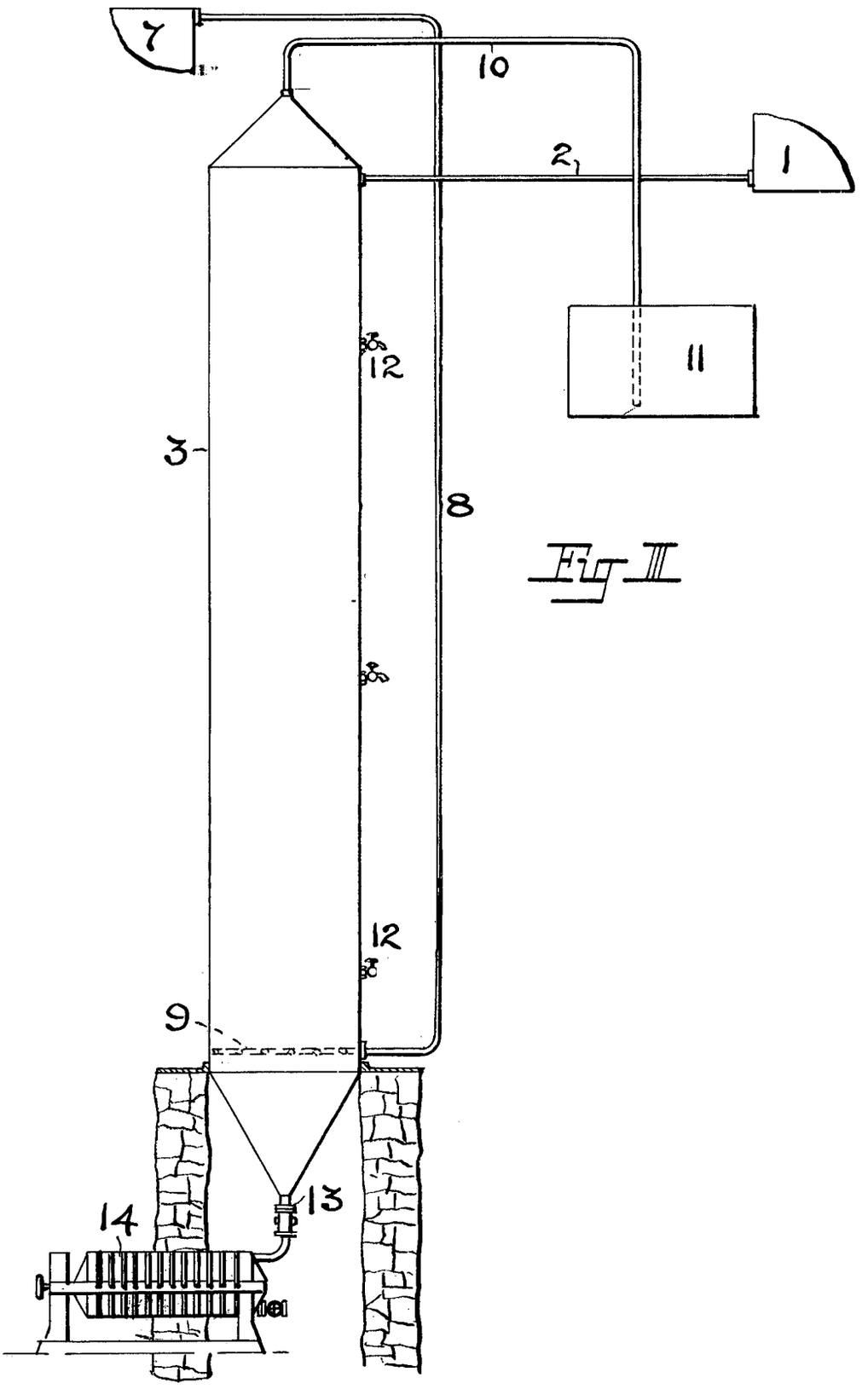


Fig III

Money + cover sent
10/6/12

3 Dft

G.R.S. 29A]

19

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To
The Superintendent of
Stamps in Mysore,
Bangalore

Dated

Despatched 7.6.12

Received

General No. 6418/G
No. G.M. 302-11-2

Enclosure No. Power of Attorney + one Rupee

4992/24/5

Has the hona to forward herewith a Power-of-Attorney executed by Mr Frank Ondra of Ferreira, Johannesburg, constituting messrs Remfry + Sau, Calcutta, as his Agents in the matter of his invention for "Improvements in Apparatus for precipitation treatment of liquids", and to request that the Power may be impressed with the Mysore Stamps of the value of Re one (herewith also forwarded) and ~~the same~~ returned to this office

By order

30/5/12

For Secretary

GTB—20,000—24-10-10.

160

4

3 Dec

G.R.S. 29A]

19

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To
The State Geologist in
Mysore

Dated

Despatched 7th June 1912

Received

General No. G.6419
No. G.M.302-11-3

Enclosure No. 1

Has the honor to forward herewith for report under Sec 6(2) of the Mysore Inventions and Designs Regulation XI of 1894, an applⁿ for leave to file a Specification of an invention for "Improvements in Apparatus for precipitation treatment of liquids" by Mr. Frank Ondra, Electrician, of 22, Fox street, Jotsa Ferreira, Johannesburg, Transvaal, South Africa

By Order

30/5/12

For Mg Secretary

GPB—20,000—24-10-10.

Treasury + Cash Mn

10/6/12

3 Pkts

G.R.S. 29A]

19

(13)

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To

The Deputy Commissioner
Treasury Deptt
Bangalore Dt

4992/M5

Dated

Despatched 7th June 1912

Received

General No. G. 6420

No. G.M. 302-11-4.

Enclosure No. Rs 10.

Has the honor to forward herewith a sum of Rs 10/- received from Messrs Remfry & Son, Calcutta as application fee for leave to file a specification of an invention for "improvements in Apparatus for precipitation treatment of liquids" by Mr Frank Ondra, Electrician of 22 Fox street, Ferreira, Johannesburg, Transvaal, S. Africa, and to request the favor of an acknowledgment for the receipt of the amount

By Order,

30/5/12

for Secretary

GPB—20,000—24-10-10.

DIARY No. 5313 (14)

SECTION Secn :
FILE No. 302 of 1911-12
SERIAL No. 5

as per Secy's No: G-6420 dt 7.6.12. No 212
G.M.-302-11-14

Book No. 1015

Rs 10-0-0 No 18

Treasury dated 10-6-1912

Received from The officiating Secretary to the Govt. of Bombay

Rupees ten only

Annas _____ and Pies _____ being on account of Application fee for leave to file a specification of an invention for "Improvements in Apparatus &c for precipitation treatment of liquids" by Mr. Frank Andrew Electrician of 22 Stephen Road, Johannesburg, Transvaal, S. Africa.

In charge of Treasury.

Noted. To Dr V to which it belongs.

12/6/12

(15)

DIARY No. 5365
191

1911-1912
SECTION for : Mis
FILE No. 302 of 1911-12
in Mysore
Serial No. 6

From The Superintendent of Stamps in Mysore

To The Secretary to the Government of Mysore General Rev Department Bangalore

Dated 11th

Despatched

Received June 1912

General No. 178
No.

Enclosure No. one Stamped Power of attorney

His Letter / Docket No. J.64/12 Gen. 302-11-2

Dated 7th June 1912

Has the honor to return herewith duly stamped the Power of attorney received with the above, and to request the favor of an acknowledgment.

Superintendent of Stamps
in Mysore.

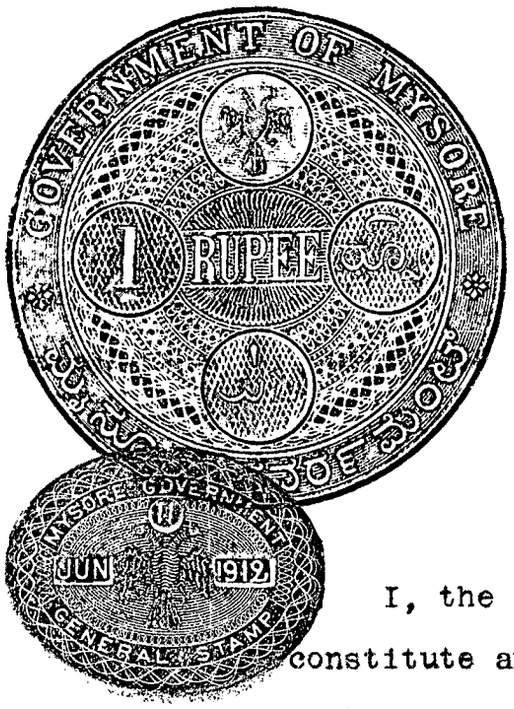
GPB—500—27-7-1

2nd 11 of 1911-12

2nd 11 of 1911-12

Enc: 4-8a b

(16)



POWER OF ATTORNEY.

In the matter of the Inventions and Designs Regulation, 1894, of the Government of Mysore and in the matter of, FRANK ONDRA, Electrician, of 22 Fox Street, Ferreirs, Johannesburg, Province of the Transvaal, Union of South Africa, an Inventor.

I, the above named FRANK ONDRA, do hereby retain, constitute and appoint the members for the time being of the firm of REMFRY & SON, Solicitors & Patent Agents, Calcutta, British India, - - - - - - - as my Agents and Attorneys to apply for and obtain from the Government of Mysore and keep in force an Exclusive Privilege or Letters Patent for "Improvements in apparatus for precipitation treatment of liquid" and I authorise them to sign my name to such papers and writings and do such acts regarding the same, including the appointment of a substitute or substitutes, as may be necessary or expedient.

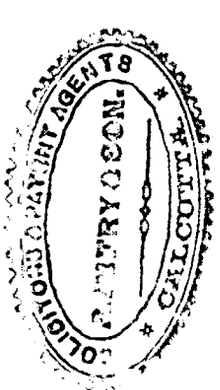
Dated this 3 day of April, 1912.

Frank Ondra.

Signed, Sealed and Delivered
at Johannesburg, in the
presence of:-

Wesley C. Sohn
Patent Agent
National Mutual Bldgs
Johannesburg

J Warren Deming
Clerk
National Mutual Buildings
Johannesburg



G.R.S. 29A]

19

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To

The Superintendent of Stamps.

Dated

Despatched 24.6.12

Received

General No. 96775

No. Gen. 302-11-7

Enclosure No.

Has the honor to acknowledge the receipt of the duly stamped power-of-attorney forwarded with his ~~letter~~ No. 178 dated the 11th June 1912

By Order,

18/6/12

for the Secretary.

VS. 41

G.P.B.—20,000—24-10-10.

C.C. 20/6

G.R.S. 29A]

19

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To
The Deputy Commissioner,
Treasury Dept.,

Dated Bangalore Dt.

Despatched 24.6.12

Received

General No. 9. 6776

No. Ge 302-11-8

Enclosure No.

With reference to his Receipt No. ~~Book~~ 212 dated the 10th June 1912 (Book No. 1015, No. 18), ~~issued~~ for the sum of Rs 10/- paid into the Treasury, has the honor to observe that neither the full description of the invention, for leave to file the specification of which the application fee was paid, nor the No. and date of this office communication with which the amount was remitted has been noted in the Receipt. The Deputy Commr. is requested to have the said particulars invariably noted in such receipts, to facilitate reference in this office.

2. The Receipt in question is herewith returned for the necessary entries being made and re-transmitted to this office at an early date.

By Order

18/6/12

for the Secretary

G.I.B.—20,000—24-10-10.

1911-12

From The Deputy Commissioner
Reading Department
Bangalore District

To The Secretary to the Govt
of Mysore
Bangalore

Dated 26th June
Despatched
Received

DIARY No 5646

General No. 2106
No.
Enclosure No.

1911-1912
SECTION for: mis
FILE No. 302 of 1911-12
ITEM No. 9

Sir,

With reference to your
Order No G 6776 dated 24.6.12
Gen. 302-11-8
I have the honor to return
herewith the Reading Receipt-
Book with the above after
Subscribing the Counters.

I have the honor to be
Sir
Your most obedient Servant

[signature]

for Deputy Commissioner
Reading Department

GPB—1,50,000—20-M11

M. G. D. 13]

MYSORE GEOLOGICAL DEPARTMENT.

Dated Bangalore 23rd July *191* 2.

No. 217
Encl. 1

DIARY No. 501

1912-1913
SECTION Gen: mis.
FILE No. 302 of 1911-12
SERIAL No. 10

From

DR. W. F. SMEETH, M.A., D.SC., etc.,
State Geologist in Mysore.

To

K.R. Srinivasa Iyengar, Esquire, M.A.,
Offg.Secretary to the Government of His Highness
the Maharaja of Mysore, Gen.& Rev.Depts.

SIR,

In reply to your docket No.G.6419/G.M.302-11-3, dated 7th June 1912, forwarding for report an application for leave to file a specification of an invention for improvements in apparatus for precipitation treatment of liquids by Mr.Frank Ondra of Johannesburg, I have the honour to state that I have examined the said specification and am of opinion that it is neither sufficiently specific nor sufficiently novel to warrant the grant of the leave applied for.

2. Claims 1 to 7 all refer to means for performing certain operations the nature of which is well known and which would ordinarily be employed by persons wishing to perform those operations.

3.

GPB—100—25-4-12

(2)

3. Claim 8 refers to the particular apparatus described and if the inventor can point out in what respects this apparatus possesses features of such novelty as to warrant other people being debarred from using similar appliances or for using such appliances in the case of any specific and novel process, Government would be prepared to reconsider such claim.

4. In case of a further application being made, Government would be glad to know whether any patent in respect of this invention has been obtained in the Transvaal or Great Britain.

5. The enclosures to your docket referred to above are returned herewith.

I have the honour to be,

Sir,

Your most obedient servant,

W. A. Smeeth

State Geologist in Mysore.

C.N.

Jm.

3 (22)

G.R.S. 26]

Gen File No. 302-11
Serial No. 11

X

Diary No. of letter replied to 501

No. G-1026
Genl-2

General and Revenue Secretariat
( )
, *the* 19

To

messrs Remfry & Son,
Solicitors and Patent Agents, Calcutta

Date of issue 21-8-12

Gentlemen,

Signed by Mr. B. Ramaswamy

With ref^ce to your letter dated the 15th May 1912, forwarding an appln for leave to file a specification of an invention for "Improvements in apparatus for precipitation treatment of liquids" by Mr Frank Ondra of Johannesburg, Transvaal, I am directed to state that the specification is neither sufficiently specific nor sufficiently novel to

over.

SUBJECT.

23

to warrant the grant of the leave applied for.

2. Claims 1 to 7 all refer to means for performing certain operations the nature of which is well known and which would ordinarily be employed by persons wishing to perform those operations.

3. Claim 8 refers to the particular apparatus described, and if it can be pointed out in what respects this apparatus possesses features of such novelty as to warrant other people being debarred from using similar appliances or for using such appliances in the case of any specific and novel process, Govt would be prepared to reconsider the application.

4. In case of a further communication being made, information may be given as to whether any patent in respect of this invention has been obtained in the Transvaal or Great Britain, and if so, a duly authenticated copy of the Order granting

List of enclosures,

Copied by

Examined by

GPB—20,000—23-9-10

(24)

G.R.S. 27]

GENERAL AND REVENUE SECRETARIAT.

(*Continuation Sheet draft form.*)

the patent may also be furnished.

5. The enclosures to your letter under reply are herewith returned.

I have &c,

Fair Off)

23 12/8 Hs Secretary.

15/8/12

15.41

23 2018

DIARY No. 477

GENERAL.

1913-1914

SECTION for: Mis

FILE No. 3020/1911-12

To

THE ~~PATENT~~ SECRETARY TO THE GOVERNMENT OF MYSORE,
~~PATENT OFFICE~~, GENL & REV. DEPTS.,
~~CALCUTTA~~. BANGALORE,
MYSORE.

FROM

REMFRY & SON,
SOLICITORS AND PATENT AGENTS,
CALCUTTA.

Dated CALCUTTA, the 14th July 1913.

Sir,

Dept. P. File Lr. M.
FILE INDICATION.
Mysore Pats.

re F. ONDRA. (MYSORE)

With reference to the above Application, we are now instructed by the Applicant to request that that the portion or portions of the Specification which fail to be specific be pointed out to enable him to elaborate same.

As regards the question of novelty, our client begs to point out that he has secured the following Patents in respect of this Invention, namely.-

U. S. A.	No. 1003781.
Canada	No. 35288.
Australia	No. 984/11
Mexico	No. 12080.
Rhodesia	No. 706/11.
Transvaal	No. 179/11.

In the matter of the Transvaal Application, the Specification was carefully scrutinized by the Chemical & Metallurgical Experts of the Transvaal Chamber of Mines which body opposed

1,000.—17-3-11.

opposed the grant of the Patent. Such Opposition was, however, successfully met by confining the Invention to metallurgical operations, and such restriction was embodied in the Mysore Specification.

The U. S. A. Patent issued without any such restriction, as will appear on reference to the enclosed U. S. A. Printed Specification No. 1003781.

Claim 8 of the Specification, as pointed out, is for a particular form of apparatus described and shown, but there may be many changes made in the form of the apparatus without departing from the Invention. It is not necessary, nor is it possible, to show all the different ways of carrying out the Invention, but the Inventor is entitled to Claims sufficiently broad to cover the real Invention and more than the specific form of apparatus described and shown.

We, therefore, solicit the favour of early and favourable Orders upon the Application.

We have the honour to be,

Sir,

Your very obedient servants,

REMFRY & SON

1 Enclo.

U.S. Specn.

I.M.B.

I.M.B.

U.S. Space.

I Pluto.

Your very affecting cousin &c &c,

Sir,

Do read the enclm &c &c,

avio Orders upon the Application.

Do, therefore, solicit the favour of credit and Protection for the Chevalier Incognito, but the Favour is desired to Vesting Quantities so as to show all the different ways of carrying out the Invention. It is not necessary, nor is it to be very complete made in the form of the Specification mentioned above, but a particular form of apparatus described and shown, as for instance Vesting from the Invention. It is not necessary, nor is it possible to show all the different ways of carrying out the Invention, but the Invention is limited to Vesting particularly as hereinafter described and shown.

Claim 5 of the Specification, as amended and, as for a Limited Specification No. 1003781.

Pulsed Specification No. 1003781.

This, we will appear on reference to the enclosed U. S. A.

The U. S. A. Patent issued without any such restriction, as above Specification.

opposed two years of two P-cars. Each Opposition was, however, successfully met by contending the Invention to Specification, one case for each restriction was claimed in the

G. R. S. 26] 23/6

File No. 302-11

Serial No. 13

Diary No. of letter replied to 477

No. G. 2255 (27)

General and Revenue Secretariat

( )

, *the* 191

To

Messrs Rempfry & Son,

Solicitors & Patent Agents,

Calcutta

Date of issue 8-9-13

Signed by Jas B Ramaswamier

Gentlemen,

With reference to your letter dated the 4th July 1913, re invention for "Improvements in Apparatus for precipitation treatment of liquids" by Mr Frank Ondra of Johannesburg, Transvaal, I am directed to request that the application together with the specification, and the power-of-

over.

SUBJECT.

attorney in respect thereof, returned
with this office No. G.1026 dated the
Sec. 302-11-11
21st August 1912, may be re-transmitted
to this office for taking further action
in the matter.

I have &c,

23.8.13.

For Secretary

hms

List of enclosures,

Copied by

Examined by

GPB—25,000—8-8-11.

REMFRY & SON,
SOLICITORS, NOTARIES & PATENT AGENTS.

FIRM FOUNDED 1827. PATENT DEPT. ESTBD. 1859.

TELEGRAPHIC ADDRESSES:
GENERAL: "REMFRYS, CALCUTTA."
PATENT DEPT.: "PATENTABLE, CALCUTTA."
CODES: A. B. C. CODE (5TH EDN.) / WESTERN UNION TEL. CODE. / PATENT CODE.

Patent Department.

FOREIGN MEMBERS,
CHARTERED INSTITUTE OF PATENT AGENTS.
AUSTRALASIAN INSTITUTE OF PATENT ATTORNEYS.

TELEPHONE NO. 593.

REGD.

PLEASE ADDRESS POST BOX NO. 161.
8, Hastings Street,

Calcutta, 17th Septr 1913

DEPT.	P.	FILE LR.	M.
FILE INDICATION.			
Mysore Pats.			

DIARY No. 2126

1913-1914
SECTION Genl & Rev
303

To

THE SECRETARY TO GOVERNMENT OF MYSORE,
GENL & REVENUE DEPTS

DEAR SIR

re **F.ONDRA. (MYSORE)**

No. 11/11-12 ~~dated~~ (?)
No.G.2255/G.M.302-11-13

Your favour of 8/9/13 in the above matter is duly to hand with **request for resubmission of Application and Power of Attorney.**

If any action is required in this matter, you will understand from this acknowledgment that we are taking such action and will, if necessary, write to you further regarding same.

Yours faithfully,
REMFRY & SON,
per

Acknowledgment
Ackt.

REMARKS

As requested, we beg to enclose herewith original Application and Power of Attorney filed in this matter and solicit the favour of early and favourable Orders on the Application.

2 Enclos.

A.M.

IN ALL LETTERS REGARDING THIS MATTER, WE SHALL BE MUCH OBLIGED BY YOUR USING THIS HEADING AND NOT INCLUDING OTHER MATTERS IN SUCH LETTERS.
[PLEASE ADDRESS CORRESPONDENCE TO:— REMFRY & SON (PATENT DEPT.), POST BOX NO. 161, CALCUTTA.]

PLEASE NOTE REQUEST IN THE MARGIN

LR. (Ackt.)—1,000—14-5-18. [500—5-9-12].

Yours.

Agent.

As requested, we beg to enclose herewith original Application and Power of Attorney filed in this matter and affirm the favour of early and favourable Orders on the Application.

Encl:-

2 Cheqs.

G. R. S. 26]

21/11

Diary No. of letter replied to 2126

General and Revenue Secretariat

( )

, *the* 191 .

Date of issue 26/11/13

Signed by S. Ramaswamaiya

Flag Z

File No. 302-11

Serial No. 157

No. G3871

encl 1

To

The State Geologist in Mysore.

Sir,

With reference to your letter No. 217 dated the 23rd July 1912, reporting on the application of Mr. Frank Ondra of Johannesburg, for leave to file a specification of his invention for "Improvements in Apparatus for precipitation treatment of liquids", I am directed to forward herewith copy of ~~his~~ letter dt. 14th July 1913 received from Messrs Remfry & Son, Calcutta,

over.

(+) Specification sent in original 12 copies

Flag Y

SUBJECT.

enumerating the countries in which patents have been secured for the invention in question and also forwarding a copy of the patent obtained in the United States, I am to request whether the under the circs the now represented leave applied for for filing a specification of the invention in question may be granted. It may be noted that the applicants have presumably not obtained any patents in respect of the invention in the United Kingdom or in British India

2. The Specification of the also invention is forwarded herewith for reference and obliging return.

I have &c,

25-11-13

for Secretary.

List of enclosures.

1 Copy of Kemp's letter
2 Specification

Copied by

Examined by

GPB—25,000—8-8-11.

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT,

DATED BANGALORE, 28th November 1913.

No. 1168

DIARY No. 3615

1913-1914
SECTION Gen: Mis
FILE No. 302 of 1911-12
SERIAL No. 46

FROM

DR. W. F. SMEETH, M.A., D.Sc., A.R.S.M., etc.,
State Geologist in Mysore.

To

K.R. Srinivasa Iyengar, Esquire, M.A.,
Secretary to the Government of His Highness
the Maharaja of Mysore, General & Revenue Departments,
Bangalore.

SIR,

With reference to your letter No. G 3871/G.M. 302-11-13, dated the 26th November 1913, I have the honour to inform you that the specification relating to Mr. Frank Ondra's invention for "Improvements in apparatus for precipitation treatment of liquids" referred to in para 2 of your letter as an enclosure thereto has not been received and to request that the specification together with the United States' Patent referred to in Messrs. Remfry & Son's letter may be kindly forwarded for reference.

I have the honour to be,
Sir,
Your most obedient servant,

Registered
State Geologist in Mysore.

H.T.G.

GPB-300-28-3-13

G.R.S. 29A]

190

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To
The State Geologist in Mysore

Dated
Despatched } 12/12/13
Received

General No. 6446(2)
Fin No. 302-11-16 A

ENCLOSURE No. two

As requested in his letter no 1168, dated the 28th Novr 1913, has the honor to forward herewith the Specification and the United States Letters Patent in respect of ~~the invention for~~ Mr Frank Ondra's invention for "Improvements in Apparatus for precipitation treatment of liquids."

By order,

8/12/13
for Secretary

GPB—10,000—9-4-06.

GENERAL.

V
3/1. 14

Ir No. 4377

REGISTERED.

1913-1914
SECTION Gen : Mis
FILE No. 302 of 1911-12

To

THE ~~PATENT~~ SECRETARY, TO THE GOVERNMENT OF MYSORE,
~~PATENT-OFFICE~~, GENL. & REV. DEPTS.,
~~CALCUTTA~~ BANGALORE,
MYSORE.

FROM

REMFRY & SON,
SOLICITORS AND PATENT AGENTS,
CALCUTTA.

Dated CALCUTTA, the 30th December 1913.

Sir,

Dept. P. File Ln. M.
FILE INDICATION.
Mysore Pats.

re F.ONDRA. (MYSORE)

Referring to our letter of 17/9/13 in this matter, we beg to enclose herewith a Certified Copy of the Complete Specification and Drawings of Transvaal Patent No. 179/11 dated 27/3/11.

We have the honour to be,
Sir,
Your very obedient servants,

1 Enclo.

A.M.

1,000.—17-3-11.

F. ONDRA.

APPARATUS FOR PRECIPITATION TREATMENT OF LIQUID.

APPLICATION FILED APR. 29, 1911.

1,003,781. **Patented Sept. 19, 1911.**

2 SHEETS—SHEET 2.

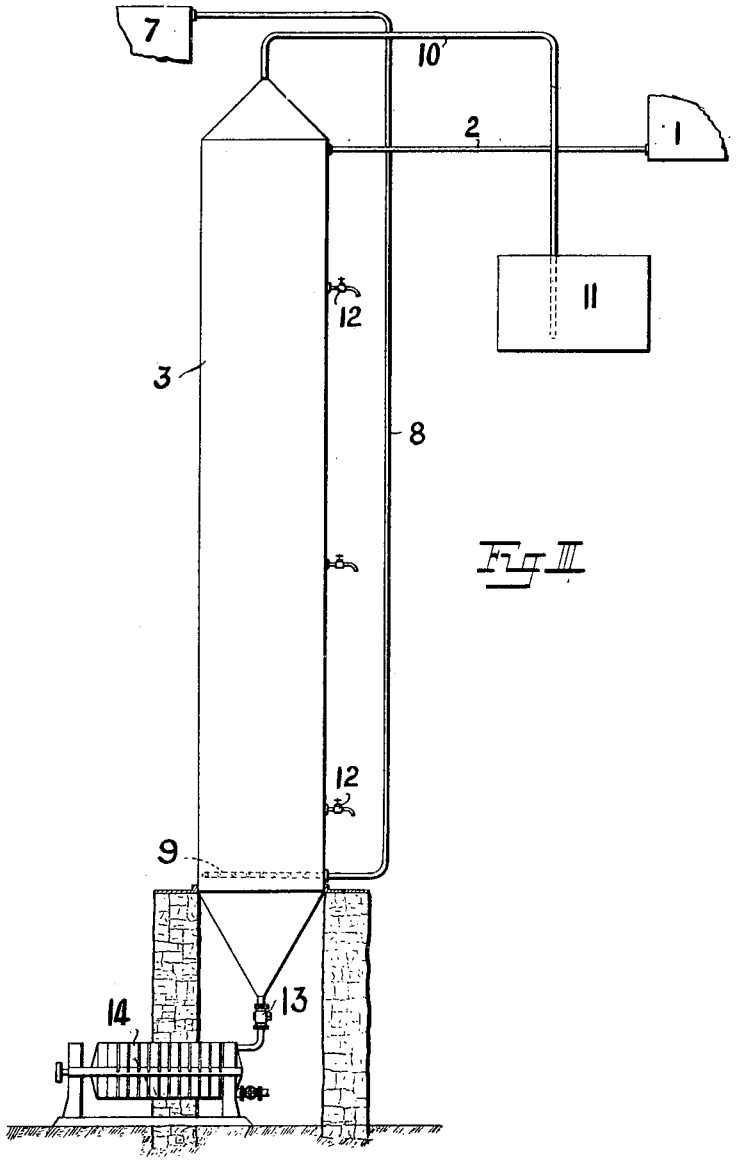


Fig III.

Witnesses
Lewis P. Hines.
Nevelle Lyles

Inventor
Frank Ondra
by Connolly Bros
Attys

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

37

UNITED STATES PATENT OFFICE.

FRANK ONDRA, OF FERREIRA, JOHANNESBURG, TRANSVAAL.

APPARATUS FOR PRECIPITATION TREATMENT OF LIQUID.

1,003,781. Specification of Letters Patent. Patented Sept. 19, 1911.

Application filed April 29, 1911. Serial No. 624,073.

To all whom it may concern:

Be it known that I, FRANK ONDRA, electrician, an Austrian subject, residing at 22 Fox street, Ferreira, Johannesburg, Transvaal, have invented certain new and useful Improvements in Apparatus for Precipitation Treatment of Liquid, of which the following is a specification, reference being had therein to the accompanying drawing.

The present invention relates to apparatus for continuously treating liquid with a precipitant, separating the pricipitate and passing off the treated liquid. It is applicable to and will be described in connection with treatment of cyanid solution for the precipitation of zinc, copper and other metals therefrom and for the regeneration of the cyanid.

Apparatus in accordance with the invention is illustrated in vertical section in Fig. I of the accompanying drawings: Fig. II being a section on *a*—*a* Fig. I. Fig. III shows a modification.

1 is a source of cyanid solution, for instance working solution which has been passed through zinc precipitation boxes. Such solution is passed by pipe 2 into the top of a tower or closed vessel 3. The lower end of said tower or vessel opens into a relatively large receiver 4. A second tower or vessel 5 rises from the receiver and is provided with an outflow pipe 6 slightly below the inlet pipe 2, so that the two towers and the receiver form an inverted siphon through which the liquid flows under a low head downwardly through tower 3 and up again through tower 5.

7 is a source of supply of carbon dioxid under pressure, whence that gas is conveyed by pipe 8 to a series of perforated pipes 9 situated in the lower part of tower 3 and extending well over the cross sectional area thereof. The gas emerges from said perforated pipes and passes into the liquid to re-act therewith. According to circumstances, precipitants other than carbon dioxid may be used and if of a liquid nature they may be passed into the upper part of tower 3 instead at the bottom, as shown.

A pipe 10 is provided at the top of tower 3 to carry off the hydrogen cyanid (or other gas as the case may be). In the case of hydrogen cyanid it is passed into vessel 11 containing a reagent, *e. g.* sodium hydrate, with which it combines to form a soluble cyanid which may be returned to the working solution; and in the case of other valuable gas it is treated in any appropriate manner capable of utilizing it.

Cocks 12 are fittted at various heights in the walls of the towers for testing the condition of the liquid in them.

The capacity of tower 3 is such that it is traversed by the liquid substantially in the time taken to complete the precipitation aimed at. Thus, for treating strong (.25%) working cyanid solutions with carbon dioxid for the precipitation therefrom of zinc, copper and other metals or impurities, it has been found desirable for the liquid to occupy about an hour in passing from the top to the bottom of tower 3; while weaker solutions require correspondingly less time.

The receiver 4 and tower 5 are of such capacity that the liquid passes through them slowly enough to cause the deposition of the precipitate carried with it from tower 3, so that clear liquid only passes away from pipe 6. The precipitate ultimately settles in the bottom of the receiver 4 and is removed thence continuously, or from time to time, as desired. The receiver 4 and tower 5 constitute a convenient means for causing the liquid to flow slowly and regularly down through tower 3, and at the same time providing for efficient separation of the precipitate from the effluent liquid. On the other hand, any other suitable means for effecting these objects may be employed; for instance as shown in Fig. III, the bottom of tower 3 may be closed and provided with a valve 13 by which the flow of liquid down through the tower is controlled. In such case the separation may take place in a filter-press 14, in a settling tank, or otherwise.

What I claim and desire to secure by Letters Patent is:—

1. The combination of two vessels connected at the bottom, means for passing liquid into the upper part of one vessel and out of the upper part of the second vessel, a source of supply of precipitant fluid, and means for passing the same into the first named vessel.

2. The combination of two vessels, a common receiver into which said vessels open at the bottom, means for passing liquid into the upper part of one vessel and out of the upper part of the second vessel, a source of supply of precipitant fluid, and means for passing the same into the first named vessel.

3. The combination with a vessel, of means for passing liquid into the upper part of the same, a source of supply of precipitant gas under pressure, means for distributing said gas into the lower part of the vessel, and means for controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom.

4. The combination with a vessel, of means for passing liquid into the upper part of the same, a source of supply of precipitant fluid, means for passing the same into the vessel, means controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom, and means for withdrawing gas from the top of the vessel.

5. The combination with a vessel, of a source of supply of cyanid solution, means for passing said solution into the upper part of the vessel, a source of supply of precipitant fluid, means for passing the same into the vessel, and means for controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom.

6. The combination with a vessel, of a source of supply of cyanid solution, means for passing said solution into the upper part of the vessel, a source of supply of precipitant fluid, means for passing the same into the vessel, means for controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom, a liquid container, and a pipe passing from the top of the vessel into the liquid container.

7. The combination of two vessels, a common receiver into which said vessels open at the bottom, means for passing liquid continuously into the upper part of one vessel and out from the upper part of the second vessel, a source of supply of precipitant fluid, means for passing the same continuously into the first named vessel, said first named vessel being of such capacity that the required precipitation is effected while the liquid is passing through it, and the second vessel and the receiver being of such capacity as to permit the settlement of the precipitate so produced.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK ONDRA.

Witnesses:
J. W. VEMUNG,
WESLEY E. JOHN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

PATENT OFFICE 24 SEP 1913 PRETORIA

CANCELLED 24 SEP PATENT

(39)

Enc: to 8217

C E R T I F I C A T E.

I, HARRY DENHAM WEDLAKE, Acting Commissioner of Patents for THE TRANSVAAL, DO HEREBY CERTIFY that the documents hereunto annexed, marked "A" and "B", respectively, are true and correct copies of the Complete Specification and Drawings filed with Letters Patent No.179/11 in the name of FRANK ONDRA, dated the 27th March,1911.

GIVEN under my hand and seal at Pretoria this 24th day of September,1913.

H.D. Wedlake

ACTING COMMISSIONER OF PATENTS.

"A"

No.179/11.

COMPLETE SPECIFICATION.

APPARATUS FOR PRECIPITATION TREATMENT OF LIQUID.

I, FRANK ONDRA, Electrician, care of Post Office Box 668, Johannesburg, Transvaal do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:-

The present invention relates to apparatus for use in metallurgical operations for continuously treating liquid with a precipitant. separating the precipitate and passing off the treated liquid. It is applicable to and will be described in connection with treatment of cyanide solution for the precipitation of zinc, copper and other metals therefrom and for the regeneration of the cyanide.

Apparatus in accordance with the invention is illustrated in vertical section in Fig. 1 of the accompanying drawings; Fig. II being a section on a-a Fig. 1. Fig.III shows a modification.

1 is a source of cyanide solution, for instance working solution which has been passed through zinc, precipitation boxes. Such solution is passed by pipe 2 into the top of a tower or closed vessel 3.

The lower end of said tower or vessel opens into a relatively large receiver 4. A second tower or vessel 5 rises from the receiver and is provided with an outflow pipe 6 slightly below the inlet pipe 2, so

RECEIVED
23 SEP 1913
ANSWERED
.....

that the two towers and the receiver form an inverted syphon through which the liquid flows under a low head downwardly through tower 3 and up again through tower 5.

7 is a source of supply of carbon dioxide under pressure, whence that gas is conveyed by pipe 8 to a series of perforated pipes 9 situated in the lower part of tower 3 and extending well over the cross sectional area thereof. The gas emerges from said perforated pipes and passes into the liquid to re-act therewith. According to circumstances, precipitants other than carbon dioxide may be used and if of a liquid nature they may be passed into the upper part of tower 3 instead of at the bottom, as shown.

A pipe 10 is provided at the top of tower 3 to carry off the hydrogen cyanide (or other gas as the case may be). In the case of hydrogen cyanide it is passed into vessel 11 containing a reagent, e.g. sodium hydrate, with which it combines to form a soluble cyanide which may be returned to the working solution; and in the case of other valuable gas it is treated in any appropriate manner capable of utilizing it.

Cocks 12 are fitted at various heights in the walls of the towers for testing the condition of the liquid in them.

The capacity of tower 3 is such that it is traversed by the liquid substantially in the time taken to complete the precipitation aimed at. Thus, for treating strong (.25%) working cyanide solutions with carbon dioxide for the precipitation therefrom of zinc, copper

and other metals or impurities, it has been found desirable for the liquid to occupy about an hour in passing from the top to the bottom of tower 3; whilst weaker solutions require correspondingly less time.

The receiver 4 and tower 5 are of such capacity that the liquid passes through them slowly enough to cause the deposition of the precipitate carried with it from tower 3, so that clear liquid only passes away from pipe 6. The precipitate ultimately settles in the bottom of the receiver 4 and is removed thence continuously, or from time to time, as desired.

The receiver 4 and tower 5 constitute a convenient means for causing the liquid to flow slowly and regularly down through tower 3, and at the same time providing for efficient separation of the precipitate from the effluent liquid. On the other hand, any other suitable means for effecting these objects may be employed; for instance as shown in Fig.III, the bottom of tower 3 may be closed and provided with a valve 13 by which the flow of liquid down through the tower is controlled. In such case the separation may take place in a filter-press 14. in a settling tank, or otherwise.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is, in apparatus for use in metallurgical operations:-

1. The combination of two vessels connected at the bottom, means for passing liquid into the upper part of one vessel and out of the upper part of the second vessel, a source of supply of precipitant fluid

and means for passing the same into the first named vessel.

2. The combination of two vessels, a common receiver into which said vessels open at the bottom, means for passing liquid into the upper part of one vessel and out of the upper part of the second vessel, a source of supply of precipitant fluid, and means for passing the same into the first named vessel.

3. The combination with a vessel, of means for passing liquid into the upper part of the same, a source of supply of precipitant gas under pressure, means for distributing said gas into the lower part of the vessel, and means for controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom.

4. The combination with a vessel, of means for passing liquid into the upper part of the same, a source of supply of precipitant fluid, means for passing the same into the vessel, means controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom, and means for withdrawing gas from the top of the vessel.

5. The combination with a vessel, of a source of supply of cyanide solution, means for passing said solution into the upper part of the vessel, a source of supply of precipitant fluid, means for passing the same into the vessel, and means for controlling the outflow of liquid from the bottom of the vessel and for separating the precipitate therefrom

6. The combination with a vessel, of a source of supply of cyanide solution, means for passing said solution into the upper part of the vessel, a source of supply of precipitant fluid, means for passing the same into the vessel, means for controlling the outflow

of liquid from the bottom of the vessel and for separating the precipitate therefrom, a liquid container, and a pipe passing from the top of the vessel into the liquid container.

7. The combination of two vessels, a common receiver into which said vessels open at the bottom, means for passing liquid continuously into the upper part of one vessel and out from the upper part of the second vessel, a source of supply of precipitant fluid, means for passing the same continuously into the first named vessel, said first named vessel being of such capacity that the required precipitation is effected whilst the liquid is passing through it, and the second vessel and the receiver being of such capacity as to permit the settlement of the precipitate so produced.

8. Apparatus for the precipitation treatment of liquid substantially as described with reference to the accompanying drawings.

Dated this 23rd day of August, 1911.

D. M. Kisch & Co.,
Patent Agents for the Applicant.

Sigd) ALFRED L. SPOOR.

"B"

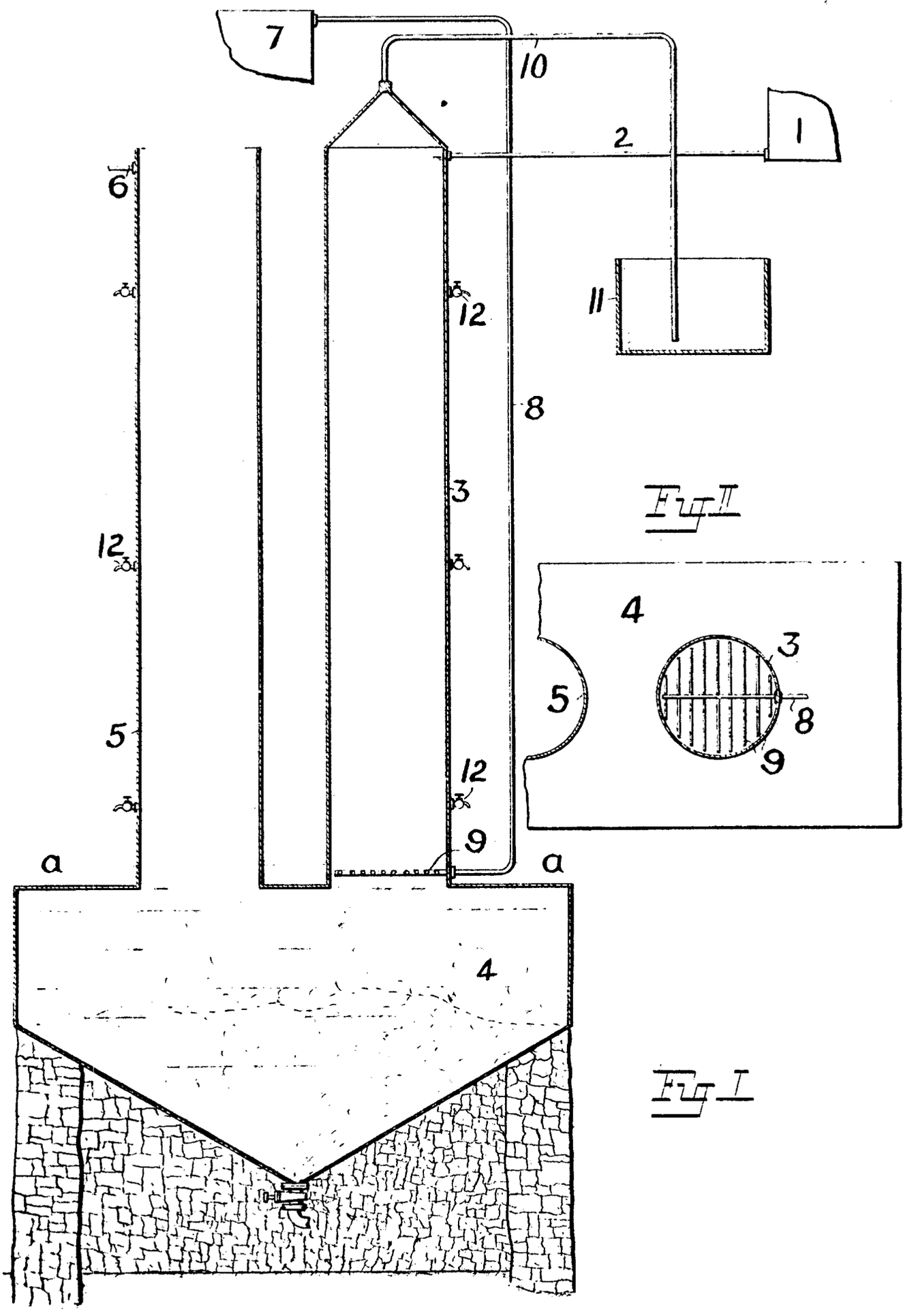


Fig II

Fig I

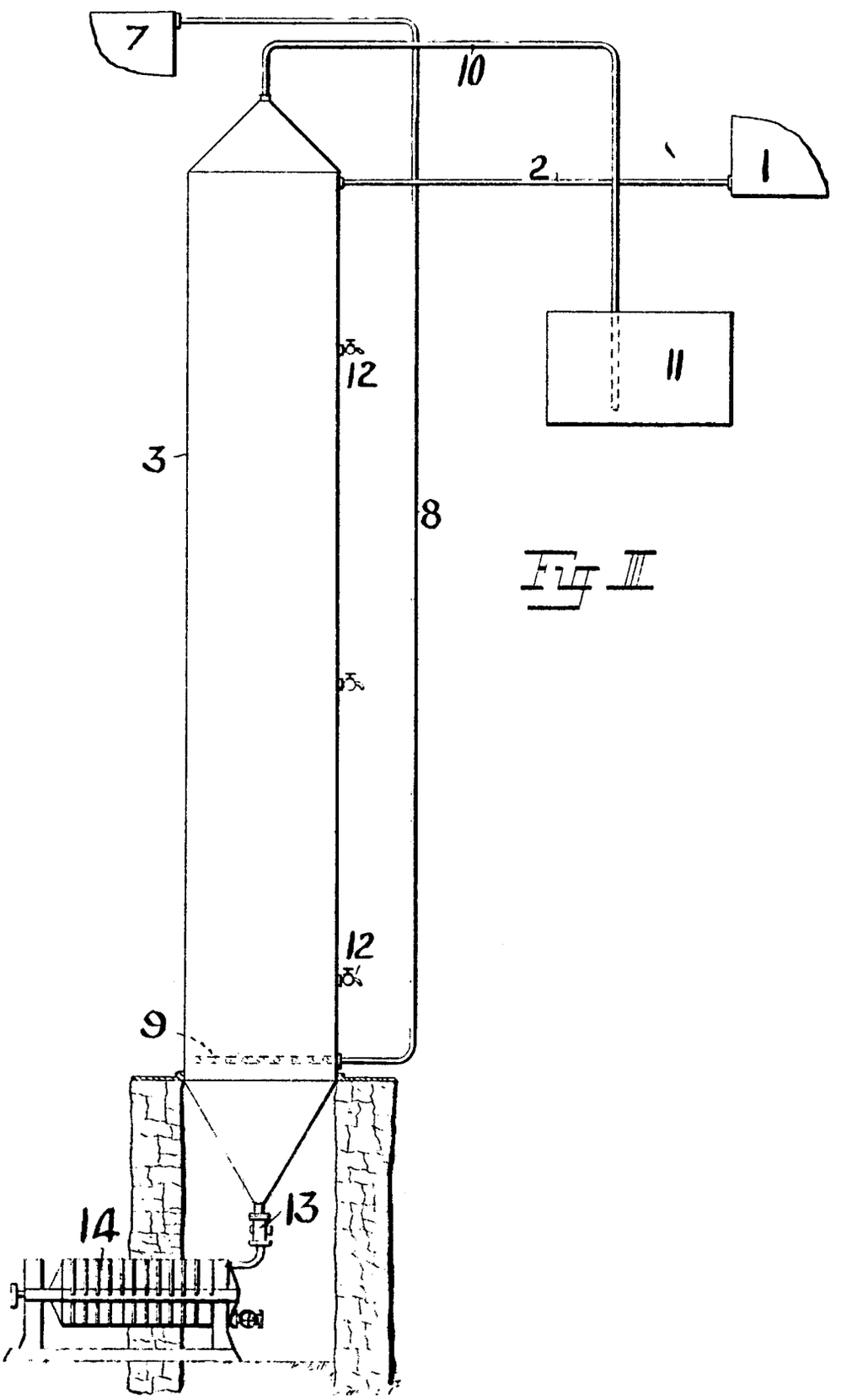


Fig III

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT,

DATED ~~BANGALORE~~, Camp, Kempadahalli, 10-1-1914.

13.

No. C.S./1613

Encl - Two

DIARY No. 4731

1913-1914

SECTION Gen: Mis

L.R. No. 302 of 1914-15

No. 18

FROM

DR. W. F. SMEETH, M.A., D.Sc., A.R.S.M., etc.,
State Geologist in ~~Mysore~~.

To

K. R. Srinivasiengar, Esq., M. A.,
Secretary to the Government of His Highness
the Maharaja of Mysore, General & Revenue Depts.

SIR,

With reference to your letter No. G 3871/ G.M. 302-11-15, dated 26th November 1913, and docket No. G 4427, dated 12th December 1913, forwarding the specification and United States Patent in respect of Mr. Frank Ondra's invention for "Improvements ~~in~~ in apparatus for precipitation treatment of liquids", I have the honour to state that, in view of the fact of a patent having been granted in the United States of America, I am willing to withdraw my objections made on the score of want of specific definition. Under the circumstances the leave applied for may be granted.

2. In such cases I presume there is nothing to prevent the Patent being contested later in case some one should claim the right to use a somewhat similar apparatus , if it can be shown that such apparatus is of an ordinary well known type or arrangement.

3. The enclosures to your docket above referred to are returned herewith.

I have the honour to be,
Sir,
Your most obedient servant,

W. F. Smeeth

State Geologist in Mysore.

N2

GPB-300-28-3-13

2915/ ab

No. G/6871
Fee 302-11-19

GOVERNMENT OF MYSORE

General Department.

Register No. 11 **of 1911-12**

Bangalore, the 27th February 1904

WHEREAS an application, dated the 3rd April 1912 and received on the 18th May 1912, has been submitted under Section 5 of the Mysore Inventions and Designs Regulation, 1894, by Mr Frank Ondra, Electrician, of 22 Fox Street, Ferreira, Johannesburg, Province of the Transvaal, Union of South Africa, (U.S.)

(hereinafter referred to as "the applicant") for leave to file a specification of an invention for "Improvements in Apparatus for precipitation treatment of liquid";

And whereas the applicant has duly complied with all the requirements of Section 5 of the said Regulation;

The Government of Mysore are pleased, under Section 6 of the said Regulation, to authorize the applicant to file a specification of the said invention in accordance with the provisions of the said Regulation.

ORDERED, that the applicant be, and he is hereby, informed accordingly.

By Order of the Government of Mysore,

Sd/) H. V. M.

for Secretary to the Govt. of Mysore,
Gen. and Rev. Depts.

Certified that the fees prescribed in the fourth schedule to the Mysore Inventions and Designs Regulation, 1894, in respect of the application for leave to file the said specification and of the filing thereof have been paid by the applicant, and that the specification hereinbefore described has been duly filed in accordance with the provisions of Section 8 of the said Regulation on this the tenth day of March 1904.

Sd/) H. A. Cellis

for Secretary to the Govt. of Mysore,
Gen. and Rev. Depts.

(Section 8 of the Inventions and Designs Regulation, 1894.)

8. (1) If within six months from the date of an order under Section 6, Sub-Section (1), or within such further time, not exceeding three months, as the Government of Mysore, in its discretion, may, on cause shown to its satisfaction and on payment of the fee prescribed in that behalf in the fourth schedule, see fit to allow, the applicant causes a specification of his invention to be filed in manner by this Part required, and the fee prescribed in the fourth schedule in respect of the filing of the specification to be paid, the applicant shall, subject to the other provisions of this Part, be entitled to the exclusive privilege of making, selling and using the invention in the Territories of Mysore, and of authorizing others so to do, for a term of fourteen years from the date of the filing of the specification.

(2) But an exclusive privilege in respect of an invention of a new manufacture shall, notwithstanding anything in Sub-Section (1), cease, if the inventor fails to pay, within the time limited in that behalf by the fourth schedule, any fee prescribed in that schedule in respect of the continuance of the privilege.

(3) If, nevertheless, in any case, by accident, mistake, or inadvertence, an inventor fails to pay any such fee within the time so limited, he may apply to the Government of Mysore for an enlargement of the time for making the payment.

(4) Thereupon the Government of Mysore may enlarge the time accordingly, on payment of the fee prescribed in that behalf in the fourth schedule, and subject to the following conditions, namely :—

(*a*) the time for making a payment shall not in any case be enlarged for more than three months ; and

(*b*) if any suit is instituted in respect of an infringement of the exclusive privilege committed after a failure to make a payment within the time limited for the making thereof and before the enlargement of that time, the Court disposing of the suit may, if it thinks fit, refuse to award or give any damages in respect of the infringement.

GPB—500—7-09.

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G. R. S. 26]

Diary No. of letter replied to 4731

General and Revenue Secretariat
( )
, the 191 .

Date of issue 27/2

Signed by Mr T. L. R. Rao

8(17. Flag C

gm File No. 302 - 11
Serial No. 20

No. G 6872

To

Messrs Rempry & Son,
Solicitors & Patent Agents,
Calcutta.

Gentlemen,

With refce to correspondence ending with your letter dated the 30th December 1913, I am directed to forward herewith G.O. No. gm 302-11- dated February 1914, authorising Mr. Frank Ondra, Electrician, of 22 Fox Street, Ferreira, Johannesburg, to file a specification of his invention for "Improvements in Apparatus for

over.

SUBJECT.

precipitation treatment of liquid" and to request that the fact may be communicated to the party concerned.

I have &c

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6/11. 2 Mg.

For Secretary to Govt

kms

List of enclosures,

Copied by

Examined by

GPB—25,000—8-8-11.

GENERAL.

DIARY NO. 6496 (57)

1913-1914
SECTION Gen: Mis
FILE No. 302 of 1911-12

REGISTERED.

To

THE ~~PATENT~~ SECRETARY, TO THE GOVERNMENT OF MYSORE,
~~PATENT OFFICE,~~ GENL. & REV. DEPTS.,
~~CALCUTTA.~~ BANGALORE,
MYSORE.

FROM

REMFRY & SON,
SOLICITORS AND PATENT AGENTS,
CALCUTTA.

Dated CALCUTTA, the 6th March 1914.

Dept. P. File Ln. M.
FILE INDICATION.
Mysore Pats.

Sir,

re F. ONDRA. (MYSORE)

No. 11 of 1911-12.

Pursuant to the Order granting leave in this matter dated 27th February 1914, Register No. 11 of 1911-12, we have the honour to forward herewith 4 copies of the Specification of FRANK ONDRA, Electrician of 22, Fox Street, Ferriera, Johannesburg, Province of the Transvaal, Union of South Africa, in respect of his Invention for "IMPROVEMENTS IN APPARATUS FOR PRECIPITATION TREATMENT OF LIQUID".

The abovementioned Order is enclosed and we solicit the favour of your filling in the Certificate at foot thereof and having same signed.

A Post Office Order for Rs. 30/- is sent today.

We have the honour to name our Office in Calcutta as the Address for Service under the Act.

We have the honour to be,
Sir,
Your very obedient servants,

Enclos.
4 Specns.
Order.

1,000.—17-3-11. I.M.B.

Enc: Lo-Sl 21.

(5)

COUPON. The remitter may write here any communication to the payee

Rs. 30 As. : re F.ONDRA (MYSORE) SPECIFICATION
No. 11 of 1911-12.
10.3.14 as per letter of date.

Remitter.

6/3/14

To Br V

10/3/14

24/3/14

Memo & cover slip
21/5/14 24/4

96

G.R.S. 29A]

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From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To

The Deputy Commr.
Fry Dept, Bangalore.

Dated

Despatched 20/5/14

Received

General No. C 9600

Rev No. 302-11-22

Enclosure No. Rs 30/-

Has the honor to forward herewith a sum of Rs 30/- (Thirty only) ~~received~~ received from Messrs Rempfry & Son, Calcutta, being the fee payable for filing a specification of an invention for "Improvements in apparatus for precipitation treatment of liquid" by Mr Frank Ondra of Johannesburg, Transvaal, and to request the favor of an acknowledgment for the receipt of the amount.

By Order,

[signature]
for Secretary

GPB—20,000—24-10-16.

C. Rel
Bkf
28/4

MYSORE GOVT, GEN. & REV. SECRETARIAT,

No. G 9401
Gen 302-11-23

Dated Bangalore, 20th May 1924.

NOTIFICATION

(PATENT.)

The following specification of an invention has been filed in accordance with Sections 8, 9, 10 and 11 of Regulation XI of 1894 (The Inventions and Designs Regulations) and is open to inspection at the Mysore Government Secretariat on application to the Secretary to the Government of His Highness the Maharaja of Mysore, General and Revenue Departments, and on payment of a fee of one Rupee.

By Mr. Frank Ondra, Electrician, of 22, Fox Street, Ferreira, Johannesburg, Province of the Transvaal, Union of South Africa".

"Improvements in Apparatus for precipitation treatment of liquid."

By Order,

For Secretary.

To

The Compiler, *Mysore Gazette*, for publication.

No. G. 9402
Rev. 302-11-24

MYSORE GOVT. GEN. & REV. SECRETARIAT,

Dated Bangalore, 28th April 1914.

From

The Secretary to the Government of H. H. the Maharaja of Mysore,
General and Revenue Departments.

To

Messrs Remfry & Son,
Solicitors & Patent Agents,
Calcutta

~~Sir~~, Gentlemen,

With reference to your letter dated the 6th March 1914, I am directed to forward copy of a Notification No. G 9401 / Rev. 302-11-23 dated 28th ~~April~~ April 1914 issued by this Government in regard to the invention filed by you under Regulation XI of 1894 (The Inventions and Designs Regulations.) and request that the fact may be communicated to the party concerned.

The order granting permission to file specification is herewith returned, with the certificate at foot, duly filled in and signed.

I have the honor to be,
Sir,
Your most obedient servant,

for Secretary.

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3 of 12

G.R.S. 29A]

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5

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To
(1) The State Geologist in Mysore.
(2) The Supdt, Govt Museum.
(3) The Chief Engineer of Mysore

Dated

Despatched 26/5/14

Received

General No. G 403—5
Fin No. 302—11—25

Enclosure No. One

Has the hena to forward herewith for record in his office copy of a specification of an invention for "Improvements in Apparatus for precipitation treatment of liquid" by Mr. Frank Ondra of Johannesburg, Transvaal, and to request the favor of an acknowledgment.

By order,

For Secretary

DIARY NO. 8409

13 · 1914
gen-mis
FILE No 302 of 1911
CITY 26

(5)

Rs 30/- Book No. 1045/138 No 68

Bangalore District Treasury dated 21 · 5 · 1914.

Received from The Secretary, General & Revenue Depts Bangalore

Rupees Thirty only

Annas ——— and Pies ——— being on account of

fee for filing a Specification of an invention for Improvements in apparatus for precipitation of treatment of liquids received from Messrs Rumfoy & Sons Calcutta received with his docket no. G.9400/302-11-22 dated 20.5.14.

M. Srinivasamurthy
In charge of Treasury.
Bangalore District

Noted and returned to B & R

23/5

GPB—1,000—13-2-14

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT.

DATED BANGALORE, 21st May 1914.

No. 2888

DIARY No. 8439

1913 1914
SECTION: Jen: Mis
FILE No. 302 of 1911-12
27

FROM

DR. W. F. SMEETH, M.A., D.SC., A.R.S.M., etc.,
State Geologist in Mysore.

To

D.M. Narasinga Rao, Esquire B.A., B.L.,
Offg. Secretary to the Government of His Highness
the Maharaja of Mysore, Gen.& Rev.Depts.

SIR,

I have the honour to acknowledge the receipt of a copy of specification of an invention for "Improvements in Apparatus for precipitation treatment of liquid" by Mr.Frank Ondra of Johannesburg, Transvaal, forwarded with your docket No.G.9403-5/G.M.302-11-25, dated 20th May 1914.

I have the honour to be,
Sir,
Your most obedient servant,

State Geologist in Mysore.

C.N.

DIARY NO. 8473

1913 - 14

EDUCATION Genl. Nos

Nos 3020-1914-12

28

57

No. 200.

OFFICE OF ECONOMIC BOTANIST;
SUPERINTENDENT, MYSORE GOVERNMENT MUSEUM,
Bangalore, dated 21st 22nd May 1914.

FROM

G. H. KRUMBIEGEL, ESQ., F.R.H.S.,
Economic Botanist,
Superintendent, Mysore Govt. Museum,
Bangalore.

To

The Secretary to the Govt.
of H. H. the Maharaja of Mysore
General and Revenue Depts.

Sir,

I have the honor to acknowledge the receipt of a copy of the Specification of an invention for "Improvements in Apparatus for precipitation treatment of liquid" by Mr. Frank Oudra, forwarded with your Docket No. G. 9403-5/G.N. 302-11-25, dated 20th May 1914

I have the honor to be,
Sir,
Your most obedient Servant,

G H Krumbiegel

Superintendent,
Govt. Museum.

V
2815

From 1913-14

G. H. KRUMBIEGEL, Esq., F.R.H.S.,
Economic Botanist,
Supt., Mysore Govt. Museum,
Bangalore.

To The Secretary to the Govt.
of H.H. the maharaja
of Mysore
Genl. and Rev. Depts

Dated 21st May 1914

Despatched 22nd May 1914

Received

General No. 200.
No.

Enclosure No.

Acknowledging
receipt of a copy of
covers specification of
an invention for "Improve-
ments in Apparatus for
precipitation treatment
of liquid by H. F. Andrew.

GPB—5,76,000—6-4-12

DIARY NO. 8704

1913-1914
SECTION Gen: Mis
LE No. 302 of 1911-12

No. 5388 MYSORE P. W. DEPARTMENT,
CENTRAL OFFICE.
Bangalore Dated 1st June 1914.

From

KARPUR SHRINIVASRAV, ESQ., B.Sc., L.C.E.,
Offg. Chief Engineer of Mysore,
Bangalore.

To

D.M.Narasinga Row, Esq: B.A., B.L.,
Offg: Secretary to the Government of His Highness
the Maharaja of Mysore, Gen: & Rev: Departments
B a n g a l o r e.

Sir,

I have the honor to acknowledge the receipt of a copy of specification of an invention for "Improvements in Apparatus for precipitation treatment of liquid" by Mr.Frank Oudra of Johannesburg, Transwal, forwarded with your No.G.9403-5/G.M.302-11-25 dated the 20th May 1914.

I have the honor to be,
S i r,
Your most obedient servant,

H. Srinivasrao
Deputy Chief Engineer of Mysore.

ARA.

V 386 W 1914

MYSORE P. W. DEPARTMENT.

No. 5388

From

THE CHIEF ENGINEER OF MYSORE,
Bangalore.

To

The Secretary to Government
Genl & Revenue Depts
Bangalore

Dated Bangalore 1—6—14

Despatched

Enclosure No.

SUBJECT.

Acknowledging the receipt of a copy of a Specification of an invention Precipitation treatment of liquid by Mr Frank Caston of Johannesburg.

GPB—2,000—4-413